



CONCRETE MIXER *Body Integration*

When specifying out a new truck for a customer, it is important to consider the body that will get mounted to the chassis. International has invested in specific features on our chassis such as the Diamond Logic electrical system to help the body installer mount their equipment with high quality in an efficient manner.

The following pages include feature codes specifically designed for ease of body integration.

FEATURE CODES/ DESCRIPTIONS:

Body Lighting

08HAB	BODY BUILDER WIRING Back of Cab at Frame, Includes Sealed Connectors for Tail/Amber Turn/ Marker/ Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn
08HAE	BODY BUILDER WIRING Rear of Frame; Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn
08HAU	BODY BUILDER WIRING INSIDE CAB; Includes Sealed Connectors for Tail/Amber, Turn/Marker/Backup/Accessory, Power/Ground, and Stop/Turn
08HBX	BODY BUILDER WIRING Back of Day Cab at Left Frame or Under Extended or Crew Cab at Left Frame with Pigtail; Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn (MV/HV)

Other body builder connections are available. Refer to the PDB-71000 sales book

Remote Engine Speed Control

12VGA	Remote mounted body builder interface wiring for engine speed control with International A26 engines. (HV/HX)
12XAT	Remote body builder interface wiring for engine speed control with Cummins B6.7 and L9 engines. (HV/MV)
12XBM	Remote mounted body builder interface wiring for engine speed control with Cummins B6.7 and L9 engines. (HV/MV)
12VXT	Sets the engine to a stationary variable mode. (HV/MV)
12VXU	Sets the engine to a stationary preset mode. (HV/MV)

Exhaust Regeneration Inhibit

07WZX	Exhaust regeneration inhibit switch, momentary, resets when key off. (HV/HX/MV)
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**Work Light Accommodation**

08WMA	SWITCH, TOGGLE, FOR WORK LIGHT Lighted; on Instrument Panel and Wiring Effects for Customer Furnished Back of Cab Light (HV/HX/MV)
08TMH	SWITCH, AUXILIARY Accessory Control; for Wiring in Roof, With Maximum of 20 Amp Load with Switches In Instrument Panel (HV/HX/MV)
08WTT	SWITCH TOGGLE FOR WORK LIGHT; ON Instrument Panel and Wiring Effects for customer furnished end of frame light. (MV/HX/HV)
08WLL	LIGHT, WORK (1) Pedestal Mounted BOC with Switch on Instrument Panel (MV/HV)

Auxiliary Switches

08XHX	SWITCH, MARKER INTERRUPT for Marker Lights and Headlights, Located in Steering Wheel (MV/HX/HV)
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High Amperage Switch

08XBK	Control one auxiliary load up to 40 Amps with a factory-installed switch for a high amperage load such as a light bar. Power available in "IGNITION" or "ACCESSORY" key states. (HV/HX/MV)
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Air Accessory Controls

08WGA/ 08WGB/ 08WGC/ 08WGD/ 08WKM	Provides 1 / 2 / 3 / 4 / 6 normally closed air solenoids to be used as a pilot air source. Includes latched switch in cab; air is available only with key in "IGNITION" or "ACCESSORY" positions. (HV/HX/MV)
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Windshield Wiper Speed Control

08WGL	Force wipers to slowest intermittent speed when park brake set and wipers left on for a predetermined time. (HV/HX/MV)
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Pre-Trip Exterior Light Inspection

08WPZ	Pre-trip inspection will cycle exterior lamps, except back-up lights. (HV/HX/MV)
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**Headlight Features**

08WRB	Headlights will automatically turn on if windshield wipers are turned on (HV/HX/MV)
08WXB	Warning buzzer sounds when headlight switch is on and ignition switch is in "Off" position (HV/HX/MV)
60AKK	Wig Wag Hi-Beam with park brake interlock. Park brake disables wig wag (HV/HX/MV)
60AKL	Wig Wag Hi-Beam with park brake interlock. Park brake disables hi-beam wig wag, enables low-beam wig wag. (HV/HX/MV)

Park Brake Alarm

08WXD	Electric horn sounds in repetitive manner when vehicle park brake is "NOT" set, with ignition "OFF" and any door opened. (HV/HX/MV)
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Theft Deterrent System

60ACX	Limits vehicle mobility by requiring a pre-selected code to be entered to drive vehicle. (HV/HX/MV)
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Back-Up Alarm

08THB	Provides a 102 dBA audible alarm when a vehicle is operated in reverse gear. (HV/HX/MV)
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Battery Disconnect Switch

08WZP	Green "Battery On" indicator light on left side of dash (HV/MV)
08RLZ	Battery Disconnect Switch (Cole-Hersee 75920-06) 300 Amp, Disconnects Cab Power, Does Not Disconnect Charging Circuits. Locks with Padlock. Battery Box Mounted (HV/HX)
08RMH	Battery Disconnect Switch (Cole-Hersee 75920-06) 300 Amp, Disconnects Charging Circuits. Locks with Padlock. Battery Box Mounted (HV/MV)
08WJV	Cab Power Disconnect Switch; Cab Mounted, Lever Operated, Disconnects Power to PDC, Does Not Disconnect Charging Circuits. (HV/MV)
08WJW	Battery Disconnect Switch (Joseph Pollak) for Cab Power Disconnect Switch, Disconnects Power to Power Distribution Center (PDC), Does not Disconnect Charging Circuits, Key Operated, Cab Mounted. (HV)



08WXY	Battery Disconnect Switch (Cole Hersee) for Cab Power Disconnect Switch, Does Not Disconnect Charging Circuits, Lever Operated, Cab Mounted (HX)
08XHD	BATTERY DISCONNECT SWITCH 300 Amp, Disconnects Charging Circuits, Locks with Padlock, Cab Mounted. (HV/MV)
08XHV	Cab Power Disconnect Switch, Cab Mounted, Disconnects power to PDC and body builder through solenoid, does not disconnect charging circuits, locks with padlock (HV/MV)
08XNB	BATTERY DISCONNECT SWITCH 300 Amp, Disconnects Power to Power Distribution enter (PDC), Does Not Disconnect Charging Circuits, Locks with Padlock, (HX)

Two-Way Radio Wiring Effects

08REA*	10' wiring coil under the instrument panel for optimal radio placement. (HV/HX/MV)
08RGA*	Wiring in the center of the header console in the cab. (HV/HX/MV)
08RHL	2-WAY RADIO Wiring Effects; for 24 Volt Radio Wiring with 20 Amp Fuse Protection, Includes 12V Ignition Wire with 5 Amp Fuse, Wire Ends Heat Shrink and 10' Coil Taped to Base Harness (HV)

** Both 08REA and 08RGA provide radio power and ground directly from the battery to minimize electrical noise on the line*

Body Builder Wiring

08HAT	Includes wires installed through the dash panel to end compartment. In cab wires ends will have ESC input terminals, Engine compartment wire ends will have sealed connectors. (HV/HX/MV)
08WZG	Junction block stud inside cab, 100 amp battery feed, Protected by a fusible link. (HV/HX/MV)
60ABM	RPM Input/Output harness with blunt cut wires for 1 RPM (HV/HX/MV)
60ABN	RPM Input/Output harness with blunt cut wires for 2 RPM (HV/HX/MV)

Automatic Neutral

13WUA	Allison WT transmission shifts to neutral when parking brake is engaged and remains in neutral when park brake is disengaged. (HV/HX/MV)
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Spare Input/ Output For Automatic Transmissions

13WUC	Remote body builder interface wiring and software programming for Allison automatic transmissions (HV/HX)
13WUR	ALLISON SPARE INPUT/OUTPUT for Dump/Construction with Two-Speed Axle or Auxiliary Transmission (RDS). (HV/HX)



Transmission Control Module Location

13WYH	TRANSMISSION TCM LOCATION Inside cab for protection from the environment. (HV/MV)
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Trailer Connections

04619	Trailer connections 4 wheel, with hand control valve and tractor protection valve for straight truck (HV/HX/MV)
08554	TRAILER CONNECTION SOCKET; 7-Way; Mounted at Rear of Frame (HX)
08TME	TRAILER CONNECTION SOCKET 7-Way; Mounted at Rear of Frame, Wired for Turn Signals Independent of Stop, Compatible With Trailers That Have Amber or Side Lamps. (HV/HX/MV)
08TMG	TRAILER CONNECTION SOCKET 7-Way; Mounted at Rear of Frame, Wired for Turn Signals; Combined With Stop, Compatible With Trailers That Use Combined Stop, Tail, and Turn Lamps. (HV/HX/MV)
08TMN	TRAILER CONNECTION SOCKET {Phillips STA-DRY} 7-Way; Equipped With ABS Feed, Mounted at BOC and End of Frame Locations. (HV/HX/MV)

PTO Controls

You must determine the type of PTO that will be added to know which PTO accommodation is appropriate:

- Transmission mounted
- Engine mounted
- Transfer case mounted

All International PTO accommodation packages are appropriate for transmission mounted PTOs, as well as transfer case mounted PTOs. To add an engine mounted PTO, order feature code 60ABE.

In addition, you must determine the type of PTO engagement that will be added. International has released features to accommodate the five most popular PTO engagement types:

- Electric engagement
- Hydraulic engagement
- Constant engagement
- Air (clutched/non-clutched) engagement
- Cable/Lever engagement

Power Take Off Engagement Type	Chelsea® Models	Muncie® Models	International® Feature
Air (non-clutched)	442/489 Series (A)	TG, SH or 82 Series	60ABK
Air (clutched)	230/236 Series (A)	CS Series (CS8/6 Air Only)	60ABL
Hydraulic	270/271/277/278/85	CS Series (CS10/20/6 Hyd Only)	60ABE

**PTO Controls and Hourmeter**

16WLM	HOURMETER, PTO for Customer Provided PTO; Indicator Light and Hour meter in Gauge Cluster Includes Return Wire for PTO Feedback Switch. (HV/HX/MV)
13XAA	PTO CONTROL, DASH MOUNTED For Customer Provided PTO; Includes Switch, Electric/Air Solenoid, Piping and Wiring. Recommended for manual transmissions only. (HV/HX/MV)
60ABE	BDY INTG, PTO ACCOMMODATION for Electric over Hydraulic PTO, Does Not Include Solenoids, With Switch Mounted on Dash, Includes Audible Alarm and Indicator Light in Gauge Cluster, (Requires 1 Remote Power Module input & 1 output) (HV/HX/MV)
60ABK	BDY INTG, PTO ACCOMMODATION, Accommodation for Electric over Air Non Clutched PTO Engagement and Disengagement, Does not Include Air Solenoid, With Switch Mounted on Dash, Includes Audible Alarm and Indicator Light in Gauge Cluster (requires 1 input & 1 output) (HV/HX/MV)
60ABL	BDY INTG, PTO ACCOMMODATION, Accommodation for Electric over Air Clutched PTO Engagement and Disengagement, Does not Include Air Solenoid, With Switch Mounted on Dash, Includes Audible Alarm and Indicator Light in Gauge Cluster (requires 1 input & 1 output) (HV/HX/MV)
60AKG	Body Integration, PTO Accommodation for (3) Latched rocker switches, one for PTO switch and two generic switches to control (3) 30amp relays, with programmable parameters. (HV/HX/MV)

Remote Power Modules and Associated Features

Remote power modules are the gateway to body integration. Each remote power module includes 6 power outputs and 6 switch inputs. Customers should inform their International dealer or body builder company if they intend to utilize this form of body integration on their vehicle.

60AAA	BDY INTG, REMOTE POWER MODULE (1); Up to 6 Outputs & 6 Inputs, Max. 20 Amps. Per Channel, Max. 80 Amps. Total (Includes 1 Switch Pack With Latched Switches), Mounted Back of Battery Box on MV Series and Under Cab, Left Rear on HV Series. (HV/MV)
60AAB	BDY INTG, REMOTE POWER MODULE (2); Up to 6 Outputs & 6 Inputs each, Max. 20 Amps. per Channel; Max. 80 Amps Total per Power Module (Includes Switch Packs with 12 Latched Switches), Mounted Back of Battery Box on MV Series and Under Cab, Left Rear on HV Series. (HV/MV)
60AAG	BDY INTG, REMOTE POWER MODULE (1) Mounted Inside Cab behind Driver Seat on MV and HV Series Up to 6 Outputs & 6 Inputs, Max. 20 Amps. per Channel, Max. 80 Amps. Total (Includes 1 Switch pack with 6 Latched Switches) (HV/HX/MV)
60AAH	BDY INTG, REMOTE POWER MODULE (2) Mounted Inside Cab behind Driver Seat on MV and HV Series; Up to 6 Outputs & 6 Inputs each, Max. 20 Amps. Per Channel, Max. 80 Amp. Total (Includes 2 Switch Packs with 12 Latched Switches) (HV/MV)

**Enhancements for additional functionality, using Remote Power Module features:**

60ACE	Dual Output Switch, control one auxiliary load up to 40 Amps with a factory-installed switch connected to two Remote Power Module outputs for a high Amperage load such as a light bar. Power available in "IGNITION" or "ACCESSORY" key states. (requires 2 Remote Power Module outputs) (HV/HX/MV)
60ACS / 60ACT / 60ACU	Replaces 1 / 2 / 3 latched switches with momentary switch(s) that provide control of body equipment from the cab and a location on the body for features such as cabinet lights and other body lights. (HV/HX/MV)
60ACW	I/O EXPANSION HARNESS (for Diamond Logic Builder) In-Cab Wire Harness (DLB) Program Only, Includes a Harness with five blunt cut Wires routed on lower left of Instrument Panel. Two ground active inputs and two (.5Amp) Relay Driver outputs are provided (HV/HX/MV)
60AJE	BDY INTG, REMOTE THROTTLE - When ground is applied to the Remote Power Module input, the engine ramps to the first preset speed and maintains that speed as long as the input is held at ground. Removing ground from the Remote Power Module input returns the engine to idle. (HV/MV)
60AJG	BDY INTG, THROTTLE CONTROL – Accommodation for single customer mounted external engine speed control switch, for utility applications. Programmable mode for various switch actions and engine speed control option. First activation of pressure switch increases the engine speed to the first preset setting; second activation of switch returns the engine speed to idle (HV/MV)

Additional Indicator Lights

60AKY	BDY INTG, DASH IND LT TRICOLOR (1) for Optional Usage Customer to Program.
60AKZ	BDY INTG, DASH IND LT TRICOLOR (2) for Optional Usage Customer to Program.
60ALA	BDY INTG, DASH IND LT TRICOLOR (3) for Optional Usage Customer to Program.
60ALB	BDY INTG, DASH IND LT TRICOLOR (4) for Optional Usage Customer to Program.
60ALC	BDY INTG, DASH IND LT TRICOLOR (5) for Optional Usage Customer to Program.
60ALD	BDY INTG, DASH IND LT TRICOLOR (6) for Optional Usage Customer to Program.
60ALE	BDY INTG, DASH IND LT TRICOLOR (7) for Optional Usage Customer to Program.
60ALG	BDY INTG, DASH IND LT TRICOLOR (8) for Optional Usage Customer to Program.
60ALH	BDY INTG, DASH IND LT TRICOLOR (9) for Optional Usage Customer to Program.
60ALJ	BDY INTG, DASH IND LT TRICOLOR (10) for Optional Usage Customer to Program.
60ALK	BDY INTG, DASH IND LT TRICOLOR (11) for Optional Usage Customer to Program.
60ALL	BDY INTG, DASH IND LT TRICOLOR (12) for Optional Usage Customer to Program.



Diamond Logic Builder Custom Software Programming Features

- Low hydraulic level indicator
- Hydraulic oil over-temperature indicator
- Hydraulic oil filter clogged indicator
- Set up body lights to work with Pre-trip light inspection
- External Regen warning
- Floodlights
- Throttle control
- Cabinet lights
- Cab strobe lights
- Multiple PTOs
- Compartment lights interlocked to parking lights and park brake
- Outrigger interlock control
- Transmission auto-neutral with interlocks
- Custom remote throttle controls